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## ABSTRACT

This invention relates to the field of measurement methods for determining the blood flow rate $Q_F$ in blood carrying lines (40). It may be used in particular to determine the blood flow in a patient's vessel, which is connected to the extracorporeal circulation (2) of a blood treatment machine by an arterial line (14) and a venous line (15). According to this invention, the net rate $dX/dt$ of a variable X which is derived from a physicochemical variable Y of the blood with the help of values $Y_A$ and $Y_V$ which are adequately constant over time, these values characterizing the physicochemical property in the arterial line (14) and the venous line (15) during the measurement interval. The net rate $dX/dt$ is then used to determine the blood flow rate $Q_F$. The targeted use of indicators is not necessary.

Fig. 1